

LABORATORY REPORT

Prepared For: Burns & McDonnell
9400 Ward Parkway
Kansas City, MO 64114
Attention: Diana Marquez

Project: 62589

Sampled: 11/06/12
Received: 11/07/12
Issued: 11/16/12 12:30

NELAP #01109CA / AZ100001 California ELAP#2446 Arizona DHS#AZ0728 Nevada #AZ01030 ORELAP #AZ100001

The results listed within this Laboratory Report pertain only to the samples tested in the laboratory. The analyses contained in this report were performed in accordance with the applicable certifications as noted. All soil samples are reported on a wet weight basis unless otherwise noted in the report. This Laboratory Report is confidential and is intended for the sole use of TestAmerica and its client. This report shall not be reproduced, except in full, without written permission from TestAmerica. The Chain of Custody, 1 page, is included and is an integral part of this report.

This entire report was reviewed and approved for release.

CASE NARRATIVE

LABORATORY ID

PVK0460-01
PVK0460-02
PVK0460-03
PVK0460-04

CLIENT ID

DP133W02/26-30
DP133W03/33-37
DP133W04/44-48
DP133W05/49-53

MATRIX

Water
Water
Water
Water

SAMPLE RECEIPT: Samples were received intact, at 1°C, on ice and with chain of custody documentation.

HOLDING TIMES: All samples were analyzed within prescribed holding times and/or in accordance with the TestAmerica Sample Acceptance Policy unless otherwise noted in the report.

PRESERVATION: Samples requiring preservation were verified prior to sample analysis.

QA/QC CRITERIA: All analyses met method criteria, except as noted in the report with data qualifiers.

COMMENTS: Results that fall between the MDL and RL are 'J' flagged.

SUBCONTRACTED: No analyses were subcontracted to an outside laboratory.

Reviewed By:



TestAmerica Phoenix

Linda Eshelman
Project Manager

Burns & McDonnell
 9400 Ward Parkway
 Kansas City, MO 64114
 Attention: Diana Marquez

Project ID: 62589

Report Number: PVK0460

Sampled: 11/06/12
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1,4-DIOXANE BY GC/MS (EPA 3520C/8270C MOD)

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: PVK0460-01 (DP133W02/26-30 - Water)									
Reporting Units: ug/l									
1,4-Dioxane	EPA 8270C	12K0401	0.56	1.1	ND	1.11	11/09/12	11/14/12	E8
<i>Surrogate: 1,4-Dioxane-d8 (14-125%)</i>					35 %				
<i>Surrogate: Nitrobenzene-d5 (27-143%)</i>					92 %				
Sample ID: PVK0460-02 (DP133W03/33-37 - Water)									
Reporting Units: ug/l									
1,4-Dioxane	EPA 8270C	12K0401	0.51	1.0	ND	1.08	11/09/12	11/14/12	E8
<i>Surrogate: 1,4-Dioxane-d8 (14-125%)</i>					37 %				
<i>Surrogate: Nitrobenzene-d5 (27-143%)</i>					96 %				
Sample ID: PVK0460-03 (DP133W04/44-48 - Water)									
Reporting Units: ug/l									
1,4-Dioxane	EPA 8270C	12K0401	0.51	1.0	ND	1.08	11/09/12	11/14/12	E8
<i>Surrogate: 1,4-Dioxane-d8 (14-125%)</i>					34 %				
<i>Surrogate: Nitrobenzene-d5 (27-143%)</i>					87 %				
Sample ID: PVK0460-04 (DP133W05/49-53 - Water)									
Reporting Units: ug/l									
1,4-Dioxane	EPA 8270C	12K0401	0.51	1.0	ND	1.08	11/09/12	11/14/12	E8
<i>Surrogate: 1,4-Dioxane-d8 (14-125%)</i>					37 %				
<i>Surrogate: Nitrobenzene-d5 (27-143%)</i>					93 %				

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METHOD BLANK/QC DATA

1,4-DIOXANE BY GC/MS (EPA 3520C/8270C MOD)

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC %REC	RPD RPD	RPD Limit	Data Qualifiers
Batch: 12K0401 Extracted: 11/09/12										
Blank Analyzed: 11/13/2012 (12K0401-BLK1)										
1,4-Dioxane	ND	1.0	0.51	ug/l						
Surrogate: 1,4-Dioxane-d8	7.64			ug/l	20.0		38		14-125	
Surrogate: Nitrobenzene-d5	17.1			ug/l	20.0		86		27-143	
LCS Analyzed: 11/13/2012 (12K0401-BS1)										
1,4-Dioxane	22.3	1.0	0.51	ug/l	20.0		112		85-116	
Surrogate: 1,4-Dioxane-d8	8.02			ug/l	20.0		40		23-132	
Surrogate: Nitrobenzene-d5	17.4			ug/l	20.0		87		28-150	
LCS Dup Analyzed: 11/13/2012 (12K0401-BSD1)										
1,4-Dioxane	21.8	1.0	0.51	ug/l	20.0		109	85-116	2	20
Surrogate: 1,4-Dioxane-d8	6.99			ug/l	20.0		35	23-132		
Surrogate: Nitrobenzene-d5	16.0			ug/l	20.0		80	28-150		
Matrix Spike Analyzed: 11/13/2012 (12K0401-MS1) Source: PVK0459-02										
1,4-Dioxane	23.8	1.0	0.51	ug/l	21.5	0.787	107	65-138		
Surrogate: 1,4-Dioxane-d8	8.71			ug/l	21.5		40	14-125		
Surrogate: Nitrobenzene-d5	19.1			ug/l	21.5		89	27-143		
Matrix Spike Dup Analyzed: 11/13/2012 (12K0401-MSD1) Source: PVK0459-02										
1,4-Dioxane	23.5	1.0	0.51	ug/l	21.5	0.787	105	65-138	1	20
Surrogate: 1,4-Dioxane-d8	7.19			ug/l	21.5		33	14-125		
Surrogate: Nitrobenzene-d5	17.7			ug/l	21.5		82	27-143		

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DATA QUALIFIERS AND DEFINITIONS

- E8** Analyte reported to the MDL per project specification. Target analyte was not detected in the sample.
- ND** Analyte NOT DETECTED at or above the reporting limit or MDL, if MDL is specified.
- RPD** Relative Percent Difference

TestAmerica Phoenix

Linda Eshelman
Project Manager

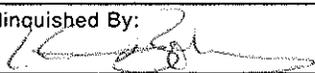
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THE LEADER IN ENVIRONMENTAL TESTING
TAL-0013-550 (10/10)

Phoenix - 4625 E. Cotton Center Blvd., Suite 189, Phoenix, AZ 85040 (602) 437-3340 FAX (602) 454-9303
 Tucson - 1870 W. Prince Road, Suite 59, Tucson, AZ 85705 (520) 807-3801 FAX (520) 807-3803
 Las Vegas - 6000 S Eastern Ave., Suite 5E, Las Vegas, NV 89119 (702) 429-1264

Page 1 of 1

Client Name/Address: Burns & McDonnell 9400 Ward Parkway Kansas City, MO 64114			Project/PO Number: 62589				Analysis Required														
Project Manager: Diana Marquet			Phone Number: 816 333 9400				14 Dioxane														
Sampler: Rev. Boiling			Fax Number:																		
Sample Description	Sample Matrix	Container Type	# of Cont.	Sampling Date	Sampling Time	Preservatives														Special Instructions	
DP133W02/26-30	W	AMBER	2	11-6-12	1230	—	X													PVK0460-01	
DP133W03/33-37	W	AMBER	2	11-6-12	1330	—	X													- 02	
DP133W04/44-48	W	AMBER	2	11-6-12	1415	—	X													- 03	
DP133W05/49-53	W	AMBER	2	11-6-12	1430	—	X													- 04	
Temp Blank	←		1	_____																	
Relinquished By: 			Date/Time: 11-6-12/1730		Received By:			Date/Time:			Turnaround Time: (Check)										
Relinquished By:			Date/Time:		Received By:			Date/Time:			same day _____ 72 hours _____										
Relinquished By:			Date/Time:		Received By:			Date/Time:			24 hours _____ 5 days _____										
Relinquished By:			Date/Time:		Received By:			Date/Time:			48 hours _____ normal <input checked="" type="checkbox"/>										
Relinquished By: FedEx			Date/Time: 11/7/12 1030		Received in Lab By: Sharon Malone			Date/Time: 11/7/12 1030			Sample Integrity: (Check)										
Relinquished By:			Date/Time:		Received in Lab By:			Date/Time:			intact <input checked="" type="checkbox"/> on ice <input checked="" type="checkbox"/>										

Note: By relinquishing samples to TestAmerica, client agrees to pay for the services requested on this chain of custody form and any additional analyses performed on this project. Payment for services is due within 30 days from the date of invoice. Sample(s) will be disposed of after 30 days.

custody seals 1.40c